Amendments to the Claims

A listing of the entire set of pending claims (including amendments to the claims) is submitted herewith per 37 C.F.R. § 1.121. This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) A method for accessing a medium by a multi-channel device, in which the medium comprises a transmission system having at least two channels, wherein a message to be transmitted on the medium includes a preamble and header (PR) followed by at least one of a control section or data section, the method comprising:

~~transmitting a message including a preamble, a header (PR) and a succeeding control or data section, and~~

~~repeating the transmission of the~~ transmitting the message including the preamble and header (PR) and the control section ~~of the message in parallel~~ on the at least two ~~all~~ channels that are an object of channel grouping to reserve the at least two channels, such that a single channel device detects the preamble and header and performs a process according to control information included in the control section.

2. (canceled)

3. (currently amended) The method of claim 1, wherein the ~~messages~~ message ~~to be transmitted are~~ is one of a request-to-send (RTS), clear-to-send (CTS), acknowledgement (ACK) or data (DATA) type.

4. (currently amended) The method of claim 1, wherein the multi-channel device operates in compliance with ~~to standard~~ IEEE 802.11 standard[[,]] and a medium access control (MAC) protocol, the method further comprises repeating information belonging to the MAC protocol on the at least two [[all]] channels.

5. (currently amended) The method of claim 1, wherein [[the]] access to the medium takes place under ~~standard~~ IEEE 802.11 standard, the method further comprising transmitting RTS, CTS and ACK control frames on the at least two [[all]] channels, and setting network allocation vectors (NAVs), by single channel devices, based on information in the RTS/CTS control frames ~~data packets~~.

6. (currently amended) A method for accessing a medium by a multi-channel device, ~~in which~~ the medium including ~~comprises~~ a transmission system having at least two channels that the multi-channel device intends to call upon for transmission, wherein ~~in which~~ a message to be transmitted on the medium includes ~~comprises~~ a preamble and[[, a]] header (PR) followed by at least one of a ~~and a succeeding~~ control section or data section ~~wherein the preamble and header (PR) of the message are repeated in parallel on all the channels~~, the method comprising:

        scanning, by the multi-channel device, ~~of all~~ the at least two channels to be called upon for transmission,

        finding that a single one of ~~these~~ the scanned channels is idle or that a back-off by the multi-channel device ~~itself~~ is underway on ~~these~~ the channel,

        blocking ~~of these~~ the channel to other devices by the multi-channel device by transmitting the message including the preamble and header (PR) and the control section, such that a single channel device detects the preamble and header and performs a process according to control information included in the control section,

        further scanning [[of]] the other channels to be called upon and blocking or reserving the other channels ~~thereof~~ on finding that the channel concerned is idle or that a backoff is underway ~~thereon~~ by transmitting the message.

7. (currently amended) The method of claim 6, further comprising:

        blocking [[of]] the channel by the multi-channel device and [[the]] a receiving device, each of the devices emitting ~~which emits a~~ the ~~reserving~~ message.

8. (currently amended) The method of claim 7, wherein the ~~reserving~~ message is implemented in the form of RTS and CTS frames, the method further comprising:

transmitting an RTS frame on [[the]] a free channel by the multi-channel device, so that devices in the area surrounding the multi-channel device that is transmitting will set their network allocation vectors (NAVs) ~~NAVs~~, and

transmitting a CTS frame on the free channel by the receiving device, so that stations in the area surrounding the receiving station will set their NAVs.

9. (previously presented) The method of claim 7, further comprising transmitting with channel grouping, by the multi-channel device, on all channels that it has previously blocked.

10. (currently amended) The method of claim 6, further comprising

blocking [[the]] a channel by starting the transmission by the multi-channel station on the single channel, wherein the transmission can be made with or without an RTS-CTS mechanism.

11. (currently amended) A method for accessing a medium by a multi-channel device, the medium comprises a transmission system having at least two channels that the multi-channel device intends to call upon for transmission, [[and]] wherein a message to be transmitted on the medium comprises ~~comprising~~ a preamble and[[,]] a header (PR) followed by at least one of [[and]] a ~~succeeding~~ control section or data section, the method comprising:

repeating the preamble and header (PR) of the message ~~in parallel~~ on all channels that are an object of channel grouping, and

reserving or blocking, by a third device independent of [[the]] a transmitter and receiver of the message, the channels in [[a]] the channel group for the multi-channel device that intends to transmit, such that a single channel device detects the preamble and header and performs a waiting process.

12. (previously presented) The method of claim 11, further comprising:

      coordinating, by the third device, access to the medium for a plurality of channels.

13. (previously presented)   The method of claim 11, wherein in the event of individual channels in the channel group not becoming free simultaneously, the third device causes, alternatively,

      blocking one channel or individual channels until such time as all the channels in the channel group have become free, or

      assigning a channel that has become free immediately to the multi-channel device that intends to transmit.

14. (previously presented) The method of claim 11, wherein the third device is a hybrid coordinator or point coordinator, the method performing the medium access under standard IEEE 802.11.

15. (previously presented) The method of claim 14, further comprising:

      transmitting, by the point coordinator or hybrid coordinator, beacons in parallel on all the channels.

16. (previously presented)   The method of claim 1, further comprising:

      employing Standard Universal Mobile Telecommunication System (UMTS) as the transmission system.

17. (previously presented) A multi-channel device for accessing a medium, the medium comprises a transmission system having at least two channels, the multi-channel device performing the method of claim 1 for accessing the medium.

18. (currently amended) A wireless network comprising a transmission system having at least two channels and at least one multi-channel device as claimed in claim 17.

19. (new) The method as claimed in claim 1, wherein the preamble and header (PR) are repeated in parallel on the at least two channels.